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7th INTERNATIONAL SYMPOSIUM & EXHIBITION

# SOLID PHASE SYNTHESIS

& COMBINATORIAL CHEMICAL LIBRARIES

18th to 22nd September, 2001 - University of Southampton, England, UK

Peptides, Glycopeptides, Oligonucleotides, DNA, RNA, PNA, Proteins, etc.

Small Molecule Organic Chemical Diversity, Drug Design, etc

*Under the Auspices of the European Peptide Society and the BS/RSC UK Protein and Peptide Science Group*

HOME

Please select language:

Translate

Google



**Southampton 2001 - For Details Click on Menu Below  
7th SPS & Combinatorial Libraries Symposium**

- ['Final' Lecture Programme and Symposium Timetable](#)
- [On Line Booking Form for Registration and Accommodation  
\(Superior and/or Standard Rooms\)](#)
- [Symposium Venue - The University and City of Southampton](#)
- [Submit an Abstract Title \(Oral Communication/ Poster\)](#)
- [Leisure and Tourism - Pre- & Post Symposium Activities](#)
- [Optional Evening Events - Southampton Disco Cruise &/or  
Portsmouth HMS Warrior 1860 Visit & Dinner](#)
- [Scientific Organisation - Symposium Topics and Themes](#)
- [Contributed Lectures and Poster Communications](#)
- [Abstract Preparation and Abstract Submission - Deadlines](#)
- [Exhibition / Exhibitor Enquiries](#)



Warrior 1860 Figurehead

## Symposium Venue - The University and City of Southampton



North Bargeate - Southampton

The City of Southampton is famed for its maritime connections. Founded in Saxon times, it was here that Viking King Canute was crowned. Later the Normans built the massive City Walls. Much of these still stand today as testament to Southampton's importance as a point for military embarkation and trade with Continental Europe. Southampton has long been home to the great ocean liners, from the fateful Titanic to the modern day Ariana and the QE2. Today, the water front pulses with activity with splendid marinas, harbour trips and nautical events of all kinds. The Symposium takes place at the same time as the world famous Southampton Boat Show - the largest event of its kind in Europe - immediately before the start of the Volvo Round-the-World Ocean Race.



The Southampton Boat Show

The University of Southampton, where participants will be housed, is pleasant and modern. The University is situated close-by Southampton Common to the north of the City. **The**



Merchants' Hall Hantsgate

**Symposium is designed to be fully residential.** However, participants are free to pay the registration fee only and to make Hotel or Guest House accommodation arrangements in Southampton, if they so wish. Hotel accommodation tends to be expensive during Boat Show week.

**University Accommodation** is all single room and needs to be booked through the Symposium Secretariat at the time of registration. University rooms are of two kinds, superior single and standard single. **Superior Single University Rooms** each have a private shower and toilet. However, **Standard Single University Rooms** involve limited sharing of these facilities. There are ample Superior Single and Standard Single University rooms still available. All University rooms are dramatically less expensive than comparable rooms in Southampton.

Unfortunately, all the economy Double- and Twin-bedded Guest House Rooms reserved by the Symposium Secretariat are now fully booked.

**Hotel and Guest House Bookings** (subject to availability) can be made via the Southampton Tourist Service, *'Destination Southampton'*. Hotel bookings cannot be made through the Symposium Secretariat.



De Vere Grand Harbour Hotel

**Further Details and Contacts** concerning accommodation options can be obtained by clicking on [The Final On Line Registration Form](#).

The Symposium Lectures, Posters and Exhibition will be held within the modern University of Southampton Boldrewood Conference Centre.

**Useful Websites** for more information about the City.

- [The Water's Edge - Southampton](#)
- [Southampton - A Brief History](#)

[^ Menu ^](#)

### Leisure and Tourism - Pre & Post Symposium Activities

Tudor House Museum  
Southampton

The Scientific Programme will be arranged to allow free time for informal discussion, for sight-seeing and for social activities. A **Special Feature of the Symposium** will be the opportunity to stay at the University over the weekends before and/or after the Symposium for the purposes of leisure and tourism. There is no formal Accompanying Persons Programme but **Delegates & Accompanying Persons** alike will find excellent opportunities for individual tourism.

In addition to the **Southampton Boat Show** centred on Mayflower Park, places of interest include the **Maritime Museum**, featuring memorabilia of the great trans-atlantic Liners such as the Queen Mary, the Queen Elizabeth, the Mauretania and the Titanic, the **Tudor House Museum**, and the **Hall of Aviation** with historic aircraft such as R.J. Mitchell's



Aloft



Boat Show Scene

Drake of Wellington Inn  
Southampton



Lord Nelson's Victory  
Portsmouth

Southampton Spitfire. Tourist attractions further afield include **Beaulieu Abbey** and the **National Motor Museum**, the beautiful woodlands of the **New Forest**, King Alfred's **Winchester** and, most importantly, **The City and Royal Dockyards of Portsmouth**.

**Portsmouth** has long been the home of the English and, later the British, Royal Navy. It was already a port by the time of Alfred the Great and his foundation of the English Navy in 897. Building of Portsmouth's first dockyards commenced on the orders of Richard the Lionheart during 1194. It was from Portsmouth that the Victory, with Admiral Lord Nelson, and the British Fleet sailed for the Battle of Trafalgar. Today, the warships of the modern Royal Navy are moored close by the magnificent ships of bygone centuries. These include **HMS Victory**, Admiral Lord Nelson's Flagship, the **Mary Rose**, flagship of Henry VIII's navy, and **HMS Warrior**, pride of the Royal Victorian Navy.



King Alfred The Great  
Winchester

**Useful Websites** for more information:

- [Welcome to Portsmouth Harbour](#)
- [Flagship Portsmouth - The World's Greatest Historic Ships](#)

[^ Menu ^](#)

### Optional Evening Events in Southampton and Portsmouth



HMS Warrior 1860  
Portsmouth

**'Blue Funnel' Disco Cruise on Southampton Water (Wed 19th Sept)** The fee for this optional after dinner event involves two way transport between the University Campus and the Harbour, Disco Cruise, and, later, a light 'Chicken in the Basket' supper.

**Evening Visit and Dinner aboard 'HMS Warrior 1860' Portsmouth (Thur 20th Sept)** This event provides delegates with two way travel to Portsmouth and the Royal Navy Dockyard for a Visit and Evening Dinner on the Gun Deck of the historic Victorian Warship, HMS Warrior 1860. The fee for this optional event is reduced for Campus-based delegates to compensate for dinner not taken in the University.



Blue Funnel Disco Cruise  
Southampton Water



Warrior 1860 Gun Deck  
Evening Dinner Venue

[^ Menu ^](#)

### Scientific Organisation

The Symposium Programme will include keynote, invited and contributed lectures. **Where appropriate, these will be grouped to form concurrent microsymbiosia.** There will be a commercial exhibition. **The submission of abstracts for potential free communications (oral or poster) and longer main lecture contributions is welcomed.** Authors of free communications and lecture contributions will be invited to submit a short manuscript for publication in the Symposium Proceedings Book. However, willingness to submit a manuscript is not a condition for presenting work at the Symposium. The Symposium has two main objectives:

**First**, to provide a major forum for the presentation of advances in solid phase synthesis and combinatorial chemistry as well as other complementary non-classical technologies.

**Second**, to promote the broader potential of these methods for the solution of problems in the

biological and biomedical sciences, including drug lead discovery, optimization and development.

**Biological targets** will include peptides, glycopeptides, oligonucleotides, etc. **Non-natural targets** will include mimetics of all kinds, including diverse small organic molecules with the potential for drug development.

[^ Menu ^](#)

#### Symposium Themes and Topics

The following list is for guidance only. Invited and contributed lectures, oral communications and posters on related topics, in harmony with those listed, may be included in the final programme.

- **Solid Phase Synthesis** of peptides, polypeptides, glycopeptides, lipopeptides, oligosaccharides, DNA, RNA, genes and proteins; peptide nucleic acids, chimera, PNA and other hybrids, and small organic molecules; combination of solid phase, enzymic and recombinant DNA-based methods; purification, analysis and characterization of target molecules and intermediates by HPLC, ion exchange, capillary electrophoresis, etc.
- **Multiple and Combinatorial Synthesis** in solid phase and solid phase / solution synthesis leading to peptide, oligonucleotide and non-natural small molecule organic chemical libraries. Application in the generation of bio-active species, e.g. drug lead discovery and optimization, enzyme substrate mapping; bio-active sequence location, e.g. epitope mapping, sequencing by hybridisation.
- **Chemical Methodology** including resin developments, protection and deprotection strategies; main chain and side chain protecting groups; coupling methods; monitoring methods; target molecule detachment; segment synthesis and segment condensation; rapid and large scale synthesis, etc.
- **Computer Applications** in solid phase and combinatorial chemistry; target modelling and computer-aided design; modelling of supports and intermediate assemblies.
- **Automated Synthesis and Instrumental Analysis** including commercial synthesizers and sequencers, mass spectrometry and other methods.
- **Biological and Biomedical Applications for Southampton to include:-**
  1. **New Drug Developments/ Drug Design** - including small molecule organics, nucleic acids and PNA, antisense strategies; drug design for efficient delivery, etc.
  2. **Peptide, Protein and Nucleic Acid Vaccines** - diagnostic and other applications of peptide/ glycopeptide/ nucleotide immunology.

[^ Menu ^](#)

#### Contributed Lectures and Poster Communications - Abstract Submission

Abstracts for proposed presentation are welcome at any time. Potential registrants wishing to offer an oral (short lecture) or poster communication or a longer lecture but who cannot yet submit the full abstract may submit a working title and submit a full abstract later. Delegates may submit updated abstracts at any time.

Where oral (short lecture) communications sessions are oversubscribed with contributions of high merit, preference will be given to those lecture titles and/or abstracts received first. Early submission of lecture or poster titles is thus strongly recommended

[Click Here to Submit a Contributed Lecture / Poster Title](#). Contributed Lecture / Poster Titles may be submitted in advance of the complete abstract.

[^ Menu ^](#)

#### 'Final' Lecture Programme and Symposium Timetable

The 'Final' Lecture Programme and Symposium Timetable shown below is at all times subject to change. Final schedules will be confirmed just prior to symposium lecture sessions. In particular, the right is reserved to add or to delete lectures and to expand, condense or combine scientific lecture sessions if necessary.

Tuesday 18th September (Arrival Day)

**20.30 - 21.30 ..... WELCOME RECEPTION / EXHIBITION OPENING****Wednesday 19th September****08.30 - 08.40 ..... WELCOME AND INTRODUCTORY ADDRESS****08.40 - 10.15 ..... SESSION 1 - (Plenary) - Biopolymer Synthesis and Ligation****"Alternative Methods Enabling Native Chemical Ligation Assembly of Proteins"****- Dr Derek Hudson** (*Biosearch Technologies Inc, Novato, CA, USA*)**"Non-peptide Mimics of Helical Structures: Synthesis of Artificial Peptides and Proteins"****- M. Amblard, N. Raynard, D. Maux, G. Bergé, M. Calmes and Prof Jean Martinez** (*LAPP, Faculté de Pharmacie, Montpellier, France*)**"Synthesis of Peptide and Reporter Conjugates of Oligonucleotide Analogues"****- Dr Mike Gait** (*MRC Laboratory of Molecular Biology, Cambridge, England, UK*)**10.15 - 11.15 ..... EXHIBITION PREVIEW/ TEA/COFFEE****11.15 - 13.00 ..... SESSION 2A - Solid Phase Synthesis Supports: Handling, Design, Linkers and Spacers****"Revolutionising Resin Handling for Solid Phase Synthesis"****- Prof Mark Bradley** (*University of Southampton, Southampton, England, UK*)**"Synthesis and Application of a Novel Perfluoroalkylsulfonfyl (PFS) Linker for the Traceless Synthesis of Aromatics"****- Dr Chris Holmes** (*Affymax Research, Palo Alto, CA, USA*)**"Recent Advances in Synthesis and Use of High Load Spacer-modified Supports in SPS"****- Dr Wolfgang Rapp** (*Rapp Polymere GmbH, Tuebingen, Germany*)**11.15 - 13.00 ..... SESSION 2B - Solid Phase Peptide and Protein Synthesis (I)****"Solid Phase Synthesis of Cyclic Peptides from Marine Source: Kahalahide F and Trunkamide A"****- Prof Fernando Albericio** (*University of Barcelona, Spain*)**"Solid Phase Synthesis, Purification and Characterization of Some Biologically Active Peptides and their Fragments Containing Difficult Sequences"****- Prof Lajos Balászi** (*Inst. of Chemistry, Hungarian Academy of Sciences, Budapest*)**"Extending Synthetic Access to Proteins with a Complementary Peptide bond Ligation"****- Dr John L. Offer and Philip E. Dawson** (*The Scripps Research Institute and The Skaggs Institute for Chemical Biology, La Jolla, CA, USA*)**13.00 - 14.00 ..... LUNCH / LEISURE / EXHIBITION****14.00 - 15.45 ..... EXHIBITION / POSTER PREVIEW / TEA/COFFEE****15.45 - 17.30 ..... SESSION 3A - New Polymer Development and Combinatorial Strategies****"Combinatorial Approach to the Design of New Grafted Polymeric Surfaces"****- Dr Nick Ede** (*Mimotopes Pty. Ltd., Clayton, Vic, Australia*)**"Combinatorial Strategies for Biomedical Polymer Development"****- Dr Steve Brocchini** (*The School of Pharmacy, University of London, England, UK*)

"Preparation of New Multi-Modal Ion Exchange Media -A Combinatorial Approach"

- **Dr Nicolas Thevenin** and **Jean-Luc Maloisel** (*Amersham Pharmacia Biotech, Uppsala, Sweden*)

"Combinatorial Chemistry is Scintillating"

- **Dr Andrew J Sutherland** (*Aston University, Birmingham, England, UK*)

**15.45 - 17.30 ..... SESSION 3B - Solid Phase Peptide and Protein Synthesis (II)**

"Improved Synthesis, Biological Evaluation and Conformational Analysis of New h/r CRH Peptide Analogues"

- **Prof Paul Cordopatis** (*Department of Pharmacy, University of Patras, Greece*)

"Solid Phase Incorporation of Lipidic Side-chains on Peptides"

- **Dr Jean-Alain Fehrentz** (*LAPP, Faculté de Pharmacie, Montpellier, France*)

"Amino Acid and Peptide Diols and their Application in Ligation"

- **Robert J Broadbridge** and **Dr Ram P Sharma** (*University of Southampton, England, UK*)

"Chemical Ligation of Multiple Peptide Fragments Using Thiazolidine-4-Carboxylic Acid as Cysteine Precursor"

- **Dr Matteo Villain\***, **Jean Vizzavona†** and **Hubert Gaertner\*** (\* *GeneProt Inc., Swiss Branch, Meyrin, Switzerland*; † *University of Geneva, Switzerland*)

**15.45 - 17.30 ..... SESSION 3C - Oligonucleotide Synthesis and Modifications**

"Linker Phosphoramidites for the Synthesis of Oligonucleotides on Underivatized Supports either Singly or in Tandem"

- **Dr Richard T. Pon**, **Shuyuan Yu**, and **Fady Girgis** (*University of Calgary, Calgary, AB, Canada*)

"Inoffensive Chemistry for Labelling, Immobilisations and Conjugations of Oligonucleotides"

- **Dr Duncan Graham** (*University of Strathclyde, Glasgow, Scotland, UK*)

"Amide Group Assisted 3'-Dephosphorylation of Oligonucleotides Synthesized on Universal A Supports"

- **Prof Alex Azhayev** (*University of Kuopio, Finland*)

"Doubly Labeled Oligonucleotides Through Aqueous Diels-Alder Reactions"

- **Dr Andreas Wolter** (*Prologo Biochemie GmbH, Hamburg, Germany*)

**19.30 - 20.15 ..... Shuttle Buses Depart for -**

**20.00 - 22.30 ..... BLUE FUNNEL DISCO CRUISE**

**Thursday 20th September**

**08.30 - 10.15 ..... SESSION 4 - (Plenary) - Combinatorial Chemistry, Spatial Diversity, Combinatorial Scaffolds**

"Two Decades in Combinatorial Chemistry"

- **Prof Dr Arpad Furka** (*Eotvos Lorand University, Budapest, Hungary*)

"Chemical Libraries with Spatial Diversity and Their Use for the Discovery of Peptido- and Proteinomimetics"

- **Prof Chaim Gilon** (*Hebrew University of Jerusalem, Israel*)

"Rapid Generation of Heterocyclic Scaffolds on Solid Support: The Concept, Strategy and Practice"

- **Dr Hossain Sancii** (*Advanced SymTech Inc., Louisville, KY, USA*)

**10.15 - 11.15 ..... EXHIBITION / POSTERS / TEA/COFFEE****11.15 - 13.00 ..... SESSION 5A - Instrumentation for Combinatorial Synthesis**

"Construction of a Flexible and Highly Efficient System for Compound Library Production: Consisting of Robotic Arm with Modular Reactors and Work-up Stations"

- **Prof Kiyoshi Nokihara** (*Shimadzu Scientific Research, Tokyo, Japan*)

"Workbench Automation in Synthesis: From Preparation to a Final Substance"

- **Werner Zinsser** (*Zinsser Analytic GmbH, Rodelheim, Germany*)

"Multistep Parallel Solution-phase Synthesis of Urea and Amide Libraries on the Trident<sup>TM</sup> System"

- **Dr Francesco Spadola**, **Juergen Swienty-Busch**, **Sukanta Bhattacharyya** and **Jeff Labadie**, (*Argonaut Technologies AG, CH-4132 Muttenz-Switzerland*)

**11.15 - 13.00 ..... SESSION 5B - Genetic Analysis/ High Throughput Synthesis (I)**

"Duplex Scorpion Primers in SNP Analysis and FRET Applications"

- **A. Solinas**, **L.J. Brown**, **C. McKeen**, **J.M. Mellor**, **J. Nicol**, **N. Thelwell** and **Prof Tom Brown**  
(*§University of Southampton, England, UK; ‡Oswel Research Products Ltd, Southampton, England, UK*)

"Matrix-induced DNA Fragmentation for High Throughput MALDI-TOF Analysis of Genomic Sequence Polymorphisms"

- **Dr Mikhail S. Shchepinov**, **M.P. Denissenko**, **K.J. Smylie**, **R.J. Wörl**, **A. L. Leppin**, **C.R. Cantor** and **C.P. Rodi** (*Sequenom, Inc., San Diego, CA, USA*)

"Randomly Assembled Arrays, SNP Analysis, and High Throughput Oligonucleotide Synthesis"

- **Dr Michal Lebl** (*Illumina, Inc. and Spyder Instruments, Inc., San Diego, CA, USA*)

**11.15 - 13.00 ..... SESSION 5C - Analytical Methods for Combinatorial Libraries**

"Applications of a New Mass Spectrometry Tagging Strategy to Focussed Peptide Libraries"

- **Dr Corinne Kay** (*GlaxoSmith Kline, Chemical and Analytical Technologies, Stevenage, England, UK*)

"Using Mass Spectrometry for Identifying Novel Substrates for Proteases"

- **Dr Stephen C McKeown** (*GlaxoSmith Kline, Chemical and Analytical Technologies, Stevenage, England, UK*)

"Towards Analysis of Diverse Post-translational Modification of Proteins Using High Performance Mass Spectrometry"

- **Prof Yasutugu Shimonishi** (*Protein Research Foundation, Osaka University, Japan*)

"High Resolution Biopolymer Mass Spectrometry: New Perspectives for Analysis of Complex Biological mixtures and Combinatorial Libraries"

- **Prof Dr Michael Przybylski** (*University of Konstanz, Germany*)

**13.00 - 14.00 ..... LUNCH / LEISURE / EXHIBITION****14.00 - 15.00 ..... SESSION 6A - Solid Phase Synthesis and Application of Peptides for Biosensor Systems**

"Solid Phase Synthesis of Regioselectively-labelled Peptides for Biorecognition Analyses via Biosensors"

- **Dr John D. Wade** (*Howard Florey Institute, University of Melbourne, Vic, Australia*)

"Biosensors and Proteomics: the Role of Large Chemically Synthesized Peptides as Sensor Surfaces"

- **Prof Ed Nice** (*Ludwig Institute of Cancer Research, Melbourne, Vic, Australia*)

**14.00 - 15.00 ..... SESSION 6B - High Throughput Synthesis (II)**

"High Throughput Antisense - From 96-Well Plate Synthesis of Modified Antisense Oligonucleotides to Cell-based Screening"

- **Dr François Natt** (*Novartis Pharma AG, Basel, Switzerland*)

"High Throughput Thematic Library Development and Production "

- **Dr Christopher B Cooper** (*Bristol-Myers Squibb Pharmaceutical Research Institute, Princeton, New Jersey, USA*)

**15.00 - 16.00 ..... EXHIBITION / POSTERS / TEA/COFFEE****16.00 - 17.45 ..... SESSION 7A - Biomedically-significant Peptides/ Peptide Interactions**

"Combinatorial Search of High Structural Propensity Oligopeptides"

- **Dr Saul Gdansk Jacchieri** (*A.C. Camargo Cancer Hospital, Sao Paulo, Brazil*)

"Chemical Modification of 'Dimerization Inhibitors' of HIV-1 Protease"

- **S. König, Prof Dr H.J. Schramm, W. Schramm, T. Wenger, René Loic§\* and B. Badet§** (*Kliniken Innenstadt, Universität München, and MPI Biochemie, Martinsried, Germany; §ICSN-CNRS, Gif-sur-Yvette, France; [\*deceased]*)

"A Peptide that Binds and Stabilises p53 Core Domain"

- **Dr Assaf Friedler, Lars O. Hansson, Dmitry B. Veprintsev, Stefan M.V. Freund and Alan R. Fersht** (*Cambridge University Chemical Laboratory and Cambridge Centre for Protein Engineering, MRC Centre, Cambridge, UK*)

"The Structure and Neurotoxicity of the Abri Peptide an Amyloid Involved in Familial British Dementia"

- **Prof Brian M Austen, Omar El-Agnaf, Joseph Sheridan, Christina Sidera, Giuliano Siligardi‡, Rohanna Hussain‡, Parvez L. Haris§, Sidhara Nagala, Maria Lee** (*St George's Hospital Medical School, London, England, UK; †King's College, London, England, UK; §De Montfort University, Leicester, England, UK*)

**16.00 - 17.45 ..... SESSION 7B - Microwave-assisted Synthesis/ Novel Intermediates and Reagents .**

"A One-pot Three-step Solution Phase Syntheses of Thiohydantoins using Microwave Heating"

- **Liselotte Öhberg\* and Dr Jacob Westman‡** (*\*SIK AB, Uppsala Science Park, Uppsala, Sweden; ‡Personal Chemistry AB, Uppsala, Sweden*)

"Alpha Amino Aldehydes: Protection as N,O-Acetals for Use as Novel Building Blocks in the Solid Phase Synthesis of Heterocyclic Compounds"

- **Dr J. Beyer and Prof M. Meldal** (*Carlsberg Laboratory, Valby, Denmark*)

"Novel Polymer-supported Reagents for Organic Transformations in Solution and for Postmodification of Compound Collections Obtained by Solid Phase Synthesis"

- **Dr Jörg Rademan and Prof Dr Guenther Jung** (*Institute of Organic Chemistry, University of Tuebingen, Germany*)

"EVOblue<sup>TM</sup>30 as New Red Excitable High Performance Fluorescence Dye for Assay Development and HTS Applications"

- **Dr Eloisa Lopez-Calle, Joachim R. Fries, Annett Müller and Dirk Winkler** (*Evotec OAI, Hamburg, Germany*)

"Solid Phase Synthesis of Heterocyclic Ketene Aminals (I)"

- **Prof Mei-Xiang Wang, Tao Peng, Chan-Ping Du and Zhi-Tang Huang** (*Institute of Chemistry, Chinese Academy of Sciences, Beijing, China*)



- Prof Zhi-Tang Huang, Zhen-Dong Liu, Li-Ping Xing and Mei-Xiang Wang (Institute of Chemistry, Chinese Academy of Sciences, Beijing, China)

**19.15 - 22.30 .... HMS WARRIOR 1860 Visit and Evening Dinner**

Friday 21st September

08.30 - 10.15 ..... SESSION 8 - (Plenary) - *Molecular Immunology and Vaccine Strategies (I)*

- Prof Dr Christian Birr (Orpegen Pharma GmbH, Heidelberg, Germany)

- Prof Pravin T.P. Kaumaya (Comprehensive Cancer Center, University of Ohio, Columbus, OH, USA)

- Oleg Melnyk, Line Bourel, Cyrille Grandjean and Prof Hélène Gras-Masse (UMR 8525 CNRS, and SEDAC-therapeutics, Institut de Biologie de Lille, France)

10.15 - 11.15 .... EXHIBITION / POSTERS / TEA/COFFEE

11.15 - 13.00 .... SESSION 9A - *Molecular Immunology and Vaccine Strategies (II)*

- Prof Ferenc Hudecz\*, Matty Fejlbric†, Gábor Mező\*, Eliandre de Oliveira‡, Dimitrios Krikorian, Annamária Jakab\*, Vassilis Tsikaris#, Constantinos Sakarellos#, David Andreu§ and Sytske Welling-Wester‡, (\*Research Group of Peptide Chemistry, Hungarian Academy of Sciences, Budapest, Hungary; †University of Groningen, Groningen, The Netherlands; §University of Barcelona, Spain; # Department of Chemistry, University of Ioannina, Ioannina, Greece)

A-S Beignon\*, V Semetey\*, C Stanley‡, M.W Steward‡, M Valette§, J-P Briand\*, Dr S Muller\* and C.D. Partidos\* (\* UPR 9021 CNRS, Institut de Biologie Moléculaire et Cellulaire, Strasbourg, France; † London School of Hygiene and Tropical Medicine, London, UK; ‡ Centre National de Référence Grippe-France-Sud, Laboratoire de Virologie CHU Lyon, France)

- Prof David Andreu<sup>‡</sup>, Judith Villen<sup>‡</sup>, Eva Borrás<sup>‡</sup>, Ernest Giralt<sup>‡</sup>, Mercedes Dávila<sup>§</sup>, Esteban Domingo<sup>§</sup>, Wim M.M. Schaapert and Rob H. Meloen<sup>#</sup> (<sup>‡</sup>University of Barcelona, Barcelona, Spain; <sup>§</sup>Severo Ochoa Center for Molecular Biology, CSIC-UAM, Madrid, Spain; <sup>#</sup>Institute for Animal Science and Health, Lelystad, The Netherlands)

- Dr. Karl-Heinz Wiesmüller (EMC Microcollections, Tuebingen, Germany)

11.15 - 13.00 .... SESSION 9B - *Inhibitor Libraries/ Peptide delivery Systems*

- Prof. Gyorgy Keri (*Semmelweis Medical University, Budapest, Hungary*)

### "Cell Penetrating Peptide Transporter in Cellular Cargo Delivery"

- **Prof. Ulo Langel** (*Stockholm University and The Scripps Research Institute, La Jolla, CA, USA*)

"Enhancing Peptide Delivery Using Lip amino Acids and Liposaccharides"

- **Ross P. McGeary\***, Joanne Blanchfield\*, Handoo Rhee\*, Paul F. Alewood† and Istvan Toth\*, §, (*\* The University of Queensland, Brisbane, Qld, Australia; † The University of Queensland, Brisbane, Qld, Australia; ‡ Alchemia Pty Ltd, Eight Mile Plains, Qld, Australia; § University of Ioannina, Greece*)

#### 13.00 - 14.00 ..... LUNCH / LEISURE / EXHIBITION

#### 14.00 - 15.30 ..... SESSION 10A - Molecular Immunology/ Ligand Recognition/ Peptide Arrays

"Unmasking the anti-La/SSB Response by Specific Blocking of anti-Idiotypic Antibodies with Antisense - Complementary Peptides to La/SSB Major Antigenic Determinants"

- John G. Routsias\*, Evgenia Touloupi\*, Eleni Dotsika†, Avriella Moulias‡, Vassilios Tsikaris§, Prof Constantinos Sakarellos§, **Dr Maria Sakarellos-Daitsiotis§**, Haralampos M. Moutsopoulos\*, Athanasios G. Tzioufas\* (*\* National University of Athens, Greece; † Hellenic Pasteur Institute, Athens, Greece; ‡ University of Ioannina, Greece*)

"Mapping of the Integrin GPIIb/IIIa Regions Participating in Platelet Aggregation"

- Nikolaos Biris\*, Morfis Abatzis, Eftixia Tenente\*, Afroditi Tambaki\*, Maria Sakarellos-Daitsiotis\*, Demokritos Tsoukatos\*, Alexandros Tselepis\*, Moses Elisaf†, Kaiti Soteriadou§, Dimitrios Sideris‡, Constantinos Sakarellos\* and **Dr Vassilios Tsikaris\*** (*\*Department of Chemistry, University of Ioannina, Greece; † School of Medicine, University of Ioannina, Greece; ‡ Hellenic Institute Pasteur, Athens, Greece*)

"Site-specific Immobilization of Peptides on Glass Slides for a Novel Generation of High Sensitive and Specific Peptide Arrays"

- Xavier Duburcq†, Christophe Olivier\*, Claude Auriault‡, Hélène Gras-Masse‡ and **Dr Oleg Melnyk\*** (*\* UMR 8525, † UMR 8527 Biological and Pasteur Institute of Lille, Lille, France*)

#### 14.00 - 15.30 ..... SESSION 10B - Solid and Solution Phase Parallel Synthesis/ Applications

"Solid Phase Synthesis of Phosphorus / Nitrogen Ligands: Methodology Development, Characterisation and Parallel Synthesis"

- **Dr Moshe Portnoy** (*School of Chemistry, Tel Aviv University, Israel*)

"Solution Phase Parallel Synthesis of 5-Pyrimidine Carboxamides, Oxadiazolidinones and Amidines"

- **Dr Charles R. Johnson**, Birong Zhang, Jane F. Schmidt and Debra Chiefari (*ChemRx Advanced Technologies, South San Francisco, CA, USA*)

"Polyamines from Resin-bound Peptides and Peptidomimetics: Versatile Intermediates in the Synthesis of Heterocyclic and Oligomeric Heterocyclic Compounds"

- **Dr Adel Nefzi** and Dr Richard Houghton (*Torrey Pines Institute for Molecular Studies, San Diego, CA, USA*)

#### 15.30 - 16.00 ..... TEA/COFFEE

#### 16.00 - 17.45 ..... SESSION 11A and SESSION 11B

#### YOUNG INVESTIGATOR AWARD SESSIONS (under development) and including:-

"Synthesis of S-Containing Building Units for Backbone Cyclization and Their Use for the SPS of Novel Somatostatin Analogs"

- **Sharon Gazal** (*Department of Organic Chemistry, The Hebrew University, Jerusalem, Israel*)

"Biophysical Analysis of the Interaction of MDM2 and p53: Binding Studies of p53-derived Peptide Libraries"

- **Oliver Schon**, Assaf Friedler, Mark Bycroft and Alan R. Fersht (*Cambridge University Chemical Laboratory and Cambridge Centre for Protein Engineering, MRC Centre, Cambridge, UK*)

"Actions of Nociceptin and Related Peptides on Rat Spinal Cord"

- **Rebecca Maile** (*University of Southampton, England, UK*)

"Investigating Immunoreceptor Tyrosine-based Activation Motif (ITAM) Function in T Cell Activation Using Peptide Mimics"

- **Hazel Street** (*University of Southampton, England, UK*)

18.50 - 19.00 ..... Buses Depart for - **UNIVERSITY HIGHFIELD CAMPUS &**

19.30 - 20.00 ..... **DRINKS RECEPTION** - followed by -

20.00 - 22.30 ..... **SYMPOSIUM BANQUET**

[^ Menu ^](#)

### Abstract Preparation and Abstract Submission - Deadlines

**ABSTRACT PREPARATION:** Abstracts should be prepared initially as follows. Type 12 characters to inch. Use CAPITALS for PAPER TITLE. Author's names (put asterisk \* before presenter's name), address and zip code, in capitals and lower case. Begin headings from left hand margin. Use single space throughout.

**Dimensions of the abstract, including title, authors names and affiliation(s), should not exceed 18cm width x 10cm height approx. (180 sq cm area of text) when printed out on A4 white paper.**

**ABSTRACT SUBMISSION:** Please send the Abstract, together with a copy of the registration form or a registration reference number, BOTH by E-mail attachment AND, EITHER by FAX or Conventional Mail to Prof. Roger Epton the Symposium Chairman. Contact Details are as follows:-

E-mail: [r.epton@mayflower.demon.co.uk](mailto:r.epton@mayflower.demon.co.uk); FAX: International +44 1384 294463; National (UK) 01384

294463; Conventional Mail: Prof. Roger Epton (Symposium Chairman), c/o SPS Conference Secretariat, P.O. Box 13, Kingswinford, West Midlands, DY6 0HQ, England, U.K.

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**SUBMISSION DEADLINES:** Contributed (Longer Lecture) Paper Abstracts - May 12th, 2001; Oral (Short Lecture) Communication Abstracts - July 21st, 2001 (Note that a very limited number of reserve slots have been left for urgent late-breaking communications - contact Symposium Chairman, Prof Roger Epton, [r.epton@mayflower.demon.co.uk](mailto:r.epton@mayflower.demon.co.uk) for details; Posters Abstracts - August 1st, 2001 (Note that Late Poster Abstracts for presentation can be accepted right up to the first day of the Symposium. However, these cannot be included in the Delegate Abstract Book to be distributed to delegates on arrival in Southampton).

**SYMPOSIUM PROCEEDINGS BOOK:** All Lecture, Poster and Late Poster presentations are eligible for publication in the Symposium Proceedings Book to be published after the Symposium.

[^ Menu ^](#)

### Final Registration - On Line Form

Please Click on [The Final On Line Registration Form](#) to obtain the Southampton - 7th SPS & Combinatorial Libraries final registration and university accommodation booking details. Although, 10th September is the deadline for Final Registration/ University Accommodation Bookings (subject to availability) it is advisable to complete Final Registration/ book University Accommodation (if required) as soon as possible. Please note that, if necessary, the form may also be used for Provisional Registrations (until May 31st) and Enquiries.

[^ Menu ^](#)

### Exhibition / Exhibitor Enquiries

The Symposium Exhibition, covering all aspects of Automation,



Scenes from the Previous (6th)  
SPS & Combi Chem Symposium

**Synthesis and Screening, Instrumentation, Reagents and Supplies, etc.**, will be held in the Boldwood Exhibition Centre. 18th - 21st September, 2001, concurrently with the Symposium and the associated Scientific Poster Displays. Extended Tea/Coffee breaks, with service points located exclusively within the Exhibition Area, will service the event. Stand Shells will be supplied by a specialist contractor.

Please Click on **Southampton Exhibition - 7th SPS & Combinatorial Libraries** to obtain the Exhibitor Enquiry Form.

**Potential Exhibitors** completing this form will receive details of Exhibition Stand Display Areas, the Exhibition Floor Plan, Advertising in the Conference Wallet, possibilities for Exhibitor's Commercial Mini-symposia, opportunities for sponsorship, etc.

[^ Menu ^](#)

HOME

	<p><b>MAYFLOWER SYMPOSIUM PROCEEDINGS BOOKS</b></p>	<p><b>BIOSYM WEB-ACTIVE SYMPOSIUM CALENDARS</b></p>	<p><b>Mayflower Worldwide Web Gateway: SOLID PHASE SYNTHESIS &amp; COMBICHEM LIBRARIES</b></p> <p><small>Entry URL's www.biosym.co.uk www.mayflower.gb.com www.mayflower-usa.com</small></p>		
<p><b>On-line Registration</b></p>	<p><b>Abstract Submission</b></p>	<p><b>Book Orders</b></p>	<p><b>Other Calendars</b></p>	<p><b>Society Links</b></p>	<p><b>Instruments &amp; Supplies</b></p>

[^Top^](#)

This site is updated regularly as a communications channel for chemical, biological and biomedical aspects of peptide, protein and nucleic acid science, bio-organic combinatorial libraries, etc. Please visit each month !!

Innovation and Perspectives in  
**SOLID PHASE  
SYNTHESIS**  
& COMBINATORIAL LIBRARIES

Polymers, Proteins and Nucleic Acids  
Small Molecule Organic Chemical Synthesis

2002

**Editor: Roger Epton**

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EXHIBIT B

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**PREFACE**

This proceedings volume consists of chapters based on the lectures, short oral communications and posters presented at the Seventh International Symposium, 'Innovation and Perspectives in Solid Phase Synthesis and Combinatorial Chemical Libraries'. This was held at the University of Southampton, England, U.K. from 18th to 22nd September, 2001. The final few days leading up to the Symposium were overshadowed by the catastrophic events of September 11th. Remarkably and despite the universal shock of this tragedy, over ninety percent of the delegates, from some twenty-seven countries, arrived to participate in the Symposium. Most of those lecturers unable to travel arranged for UK or European substitutes to give their talks.

The object of the Symposium was twofold. First, to provide a forum for the presentation of advances in solid phase synthesis, including combinatorial libraries and other relevant or complementary non-classical technologies. Second to promote the potential of these methods for the solution of problems in the biological and biomedical sciences, including drug discovery, optimization and development. Biological targets for synthesis thus included simple and complex peptides, glycopeptides, lipopeptides, DNA and RNA fragments, antisense nucleic acids, PNA and other analogues, up to major gene sequences and proteins. Non-natural targets included a variety of nucleotides, including diverse small organic molecules with potential for drug lead discovery.

Submission of a manuscript for the proceedings volume was not a condition for presenting work at the symposium and most of the manuscripts were prepared after the event. Nevertheless, many of the invited and contributed lectures were written up and are published herein, together with many poster presentations.

The Scientific Sessions and the Symposium Exhibition were held in the University of Southampton Boldrewood Conference Centre. Free time was allocated to explore the old Maritime City with its traditional English Taverns and to visit the famous Southampton International Boat Show. Evening events included a popular Disco Cruise on Southampton Water and a visit to the Royal Dockyards at Portsmouth with Dinner on the historic Victorian Warship, HMS Warrior 1860.

It is my pleasure to acknowledge and to thank my numerous colleagues and friends who contributed time and effort to make the Southampton Symposium a success. I am grateful especially to the Symposium Vice-Chairs, Professor Ferric Hudecz and Dr Ram P. Sharma. Warm thanks are due to the European Peptide Society and to the Protein and Peptide Science Group of the Royal Society of Chemistry and Biochemical Society for publicity and support. I thank also the numerous exhibitors listed overleaf. Special thanks are due to the Protein and Peptide Science Group for sponsorship of the Young Investigator's Mini-symposium Competition.

Roger Epton